

PRODOROMOV, A.

Atypical findings & complications in the clinical manifestations of
Marseilles fever. Suvrem. med., Sofia 9 no.6:28-32 1958.

1. Iz Vutreshното otdelenie na Okoliiskata bolnitsa v gr. Pomorie
(Zav. otdelenieto: A. Prodoromov).

(ROCKY MOUNTAIN SPOTTED FEVER, manifest.
unusual manifest. (Bul))

BELETSKIY, B.; PRODOS, N.

Universal lubricants for molds. Stroitel' 8 no.6:24-25 Je '62.
(MIRA 15:7)

(Lubrication and lubricants)
(Precast concrete)

1. "All to the Name of War." For the Warfare of War. V. ROULETTE and M. ALTMAN, (no affiliation given); pp 1-4.
2. "Pool of Prejudices is the 'Term Period.'" W. ALTMAN, present scholar at the University of California, (California Department of General Education, Secondary School Educational Studies) in Paris and S. ALTMAN, scientific writer at the University of California, (no affiliation given); pp 5-6.
3. "The Scientific Basis of the Natural Pool of Prejudices." W. ALTMAN, present scholar at the University of California, (California Department of General Education, Secondary School Educational Studies) in Paris and S. ALTMAN, scientific writer at the University of California, (no affiliation given); pp 7-9.
4. "The Scientific Basis of the Natural Pool of Prejudices." W. ALTMAN, present scholar at the University of California, (California Department of General Education, Secondary School Educational Studies) in Paris and S. ALTMAN, scientific writer at the University of California, (no affiliation given); pp 10-12.
5. "Natural Focus of the Pool of Prejudices in the Warfare of War." W. ALTMAN, present scholar at the University of California, (California Department of General Education, Secondary School Educational Studies) in Paris and S. ALTMAN, scientific writer at the University of California, (no affiliation given); pp 13-15.
6. "Warfare in the Warfare of War." The Influence of Warfare on the Warfare of War. W. ALTMAN, present scholar at the University of California, (California Department of General Education, Secondary School Educational Studies) in Paris and S. ALTMAN, scientific writer at the University of California, (no affiliation given); pp 16-18.
7. "On the Scientific Basis of the Warfare of War." W. ALTMAN, present scholar at the University of California, (California Department of General Education, Secondary School Educational Studies) in Paris and S. ALTMAN, scientific writer at the University of California, (no affiliation given); pp 19-21.
8. "The Scientific Basis of the Warfare of War." W. ALTMAN, present scholar at the University of California, (California Department of General Education, Secondary School Educational Studies) in Paris and S. ALTMAN, scientific writer at the University of California, (no affiliation given); pp 22-24.
9. "The Scientific Basis of the Warfare of War." W. ALTMAN, present scholar at the University of California, (California Department of General Education, Secondary School Educational Studies) in Paris and S. ALTMAN, scientific writer at the University of California, (no affiliation given); pp 25-27.

RUSAKIYEV, M. [Rusakiev, M.]; KHRISTOVA, T.; ANDONOV, P.; PRODROMOV, A.;
PETKOV, I.; GRYNCHAROV, K. [Gruncharov, K.]; PACHEV, S.

Studies of the serum of some migrant birds in the presence of
antibodies neutralizing the West Nile virus. Trudy epidemiol
mikrobiol 8:139-141 '61 [publ.'62].

PRODRONOV, A.

1. "All in the Name of War - For the Victims of War." 7. "PROLOGUE and M. ARKADIA, (no affiliation given); pp 1-4.
2. "Foot of Trachinotus in the Varna Region." 7. ARKADIA, PAVEL, and others at the OCHA, Sec. (Central Epidemiological Station, Sofia); scientific symposium (Sofia) in Varna Vol 51. SOVA, Vukobrat, Mikolajewski; Scientific Institute of Epidemiology and Microbiology (Sofia); pp 1-5.
3. "The Descriptive Picture of the Varna Foot of Trachinotus, PAVEL, and others at the OCHA, Sec. (Central Epidemiological Station, Sofia); scientific symposium (Sofia) in Varna Vol 51. SOVA, Vukobrat, Mikolajewski; Scientific Institute of Epidemiology and Microbiology (Sofia); pp 1-5.
4. "The Descriptive Picture of the Varna Foot of Trachinotus, PAVEL, and others at the OCHA, Sec. (Central Epidemiological Station, Sofia); scientific symposium (Sofia) in Varna Vol 51. SOVA, Vukobrat, Mikolajewski; Scientific Institute of Epidemiology and Microbiology (Sofia); pp 1-5.
5. "Natural Focus of the Varna Trachinotus in the Eastern Part of Sofia." 7. ARKADIA, PAVEL, and others at the OCHA, Sec. (Central Epidemiological Station, Sofia); scientific symposium (Sofia) in Varna Vol 51. SOVA, Vukobrat, Mikolajewski; Scientific Institute of Epidemiology and Microbiology (Sofia); pp 1-5.
6. "The Varna Trachinotus in the Eastern Part of Sofia." 7. ARKADIA, PAVEL, and others at the OCHA, Sec. (Central Epidemiological Station, Sofia); scientific symposium (Sofia) in Varna Vol 51. SOVA, Vukobrat, Mikolajewski; Scientific Institute of Epidemiology and Microbiology (Sofia); pp 1-5.
7. "On the Epidemiology of Trachinotus in the Eastern Part of Sofia." 7. ARKADIA, PAVEL, and others at the OCHA, Sec. (Central Epidemiological Station, Sofia); scientific symposium (Sofia) in Varna Vol 51. SOVA, Vukobrat, Mikolajewski; Scientific Institute of Epidemiology and Microbiology (Sofia); pp 1-5.
8. "Seroepidemiological Research of Trachinotus in the Eastern Part of Sofia." 7. ARKADIA, PAVEL, and others at the OCHA, Sec. (Central Epidemiological Station, Sofia); scientific symposium (Sofia) in Varna Vol 51. SOVA, Vukobrat, Mikolajewski; Scientific Institute of Epidemiology and Microbiology (Sofia); pp 1-5.
9. "On the Incidence of Trachinotus in the Eastern Part of Sofia." 7. ARKADIA, PAVEL, and others at the OCHA, Sec. (Central Epidemiological Station, Sofia); scientific symposium (Sofia) in Varna Vol 51. SOVA, Vukobrat, Mikolajewski; Scientific Institute of Epidemiology and Microbiology (Sofia); pp 1-5.

ANDONOV, P.; RUSAKIEV, M.; PRODRONOV, A.

A study of the etiology of seasonal viral encephalitis in Pomorie.
Suvrem med., Sofia no.1:13-21 '61.

1. Nauchno-izsledovatel'ski institut po epidemilogiia i mikrobiologiia.
(Direktor: Vl. Kalaidzhiev) i Gradska bolnitsa, gr. Pomorie (Glaven
lekar V. Nakov.)

(ENCEPHALITIS EPIDEMIC virol)

PRODROMOV, A.

Spontaneous double rupture of the aorta in a patient with hypertension. Suvrem. med., Sofia 11 no. 2-3:185-188 '60.

1. The Medical Department of the County Hospital in Pomorie,
Chief physician: V. Nakov.

(HYPERTENSION compl.)

(AORTA wds. & inj.)

PRODROMOV, A.

PRODROMOV, A.; BACHEV, S.

Marseilles fever in Pomorie. Suvrem. med., Sofia 5 no.2:103-109
1954.

1. Iz Okoliiskata bolnitsa gr. Pomorie (gl. lekar: A.Prodromov)
(ROCKY MOUNTAIN SPOTTED FEVER,
*boutonneuse fever in Bulgaria)

PRODSKIY, A. I. (Kiev); LUNENOK-BURMAKINA, V. A. (Kiev); FRANCHUK,
I. F. (Kiev)

Isotope research on the mechanism of anodic reaction in
the electrolysis of sulfates. Rev chimie 7 no. 1: 85-90
'62.

1. Institut fizicheskoy khimii im. L. V. Pisarzhevskogo
Academii nauk Ukrainskoy SSr.

LEVICH, V.G.; PRODSKIY, A.M.

Theory of homogeneous-heterogeneous radical reactions in a
turbulent flow. Dokl. AN SSSR 165 no.5:1115-1118 D '65.
(MIRA 19:1)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova
i Institut elektrokhimii AN SSSR. 2. Chlen-korrespondent AN
SSSR (for Levich). Submitted July 16, 1965.

SOKOLOVA, Aleksandra Aleksandrovna; MEN'SHIKOVA, Lyubov' Vladimirovna;
PRODUVNOVA, R.P., red.; FEDOSEYEVA, V.F., tekhn.red.

[Utilization of the waste products of tree felling] Puti
ispol'zovaniia lesosechnykh otkhodov. Arkhangel'sk, Arkhangel'skoe
knizhnoe izd-vo, 1959. 55 p. (MIRA 13:4)
(Tree felling--By-products)

MEL'VILENKO, D.T.; PRODYVODA, N.Ye.

The usefulness of stria detecting pockets in tank furnaces. Stek.1
ker. 13 no.5:25 My '56. (MLRA 9:8)

1. Irbitskiy stekel'nyy saved.
(Glass manufacture)

PROEBRAGENSKY, N. A.

"Preparations in the Class of Quaternary Ammonium Salts." Dankova, T. F., Genkin, E. I.
and Preobragensky, N. A. (p. 187)

SO: Journal of General Chemistry (Zhurnal Obshchei Khimii) 1945, Volume 15, no. 3.

DEMBO, A.G., prof.; DIBNER, R.D., starshiy nauchnyy sotrudnik;
TESLENKO, Zh.A., mladshiy nauchnyy sotrudnik; PROEKTOR, M.L.,
aspirant

Left ventricle overstrain syndrome in healthy subjects.
Kardiologiya 2 no.3:70-77 My-Je '62. (MIRA 16:4)

1. Iz sektora sportivnoy meditsiny (zav. - prof. A.G.Dembo)
Leningradskogo nauchno-issledovatel'skogo instituta fizicheskoy
kul'tury (dir. - V.Ye.Ryzhkova) i Leningradskogo gorodskogo
vrachebno-fizkul'turnogo dispansera (glavnyy vrach V.V.
Barabanshchikov).

(HEART--DISEASES) (STRESS (PHYSIOLOGY)) (ELECTROCARDIOGRAPHY)

PROETSKIN, M.O., inzh.

Hydraulic turbines for the Borisoglebsk Hydroelectric Power Plant.
Energomashinostroenie 7 no.10:26 0 '61. (MIRA 14:10)
(Borisoglebsk Hydroelectric Power Stations--Equipment and supplies)

16

Orchard trials of nitrogen and phosphorus. E. L. Pawbeting and C. P. Kinman. *Proc. Am. Soc. Hort. Sci.* 30, 128-30(1933).—The ratio of P to N was uniformly low where N was applied to apricot, prune and peach trees.
John R. Hill

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

PROFANT, Vaclav

Some opinions on the railroad track maintenance service.
Zel dop tech 12 no.11:304, 305 '64.

1. Head of the Tratove distance, Strakonice.

CA STABILITY OF SOLS. OF SILVER IODIDE. I. P. PROPAS AND YU.

2

N. Gorokhovskii. *J. Phys. Chem.* (U. S. S. R.) 7, 354-40 (1936).—The relative av. diams. of AgI sol particles over the range from 5×10^{-8} to 5×10^{-7} M were detd. by the light-dispersion method with an accuracy of $\pm 10\%$, and these data used to det. the stability of AgI sols in presence of excess Ag or I ions. The isoelec. point lies between 5×10^{-8} and 3×10^{-7} M excess Ag⁺ for various total Ag⁺ and I⁻ concns. and the max. stabilities were detd. over the range 3×10^{-8} to 3×10^{-7} Ag and 2×10^{-8} to 1×10^{-7} I⁻. The effects of Ba(NO₃)₂, Al(NO₃)₃, and Th(NO₃)₄ are about the same as those of excess AgNO₃ or KI, and the authors conclude that in the main the stability changes can be explained chiefly by adsorption phenomena. From the strong effect of Th⁴⁺ AgI became a positively charged sol, there being minima of sol stability at $pH \dots = 4.5$ and 1.5. Measurements of the ζ potential of the sols in the presence of salts show that in the region of ready coagulation the ζ potential is nearly zero.

F. H. Rathmann

ASB-3LA METALLURGICAL LITERATURE CLASSIFICATION

E2

PROFASOV, M. M.

"Investigation of the Effect of Pipe Arrangement on Hydraulic Resistance and Flow Structure During Motion of Gas-Liquid Mixture Through the Pipes." Thesis for degree of Cand. Technical Sci. Sub 16 Feb 50, Power Engineering Inst imeni G. M. Krzhizhanovskiy, Acad Sci USSR.

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva, Jan-Dec 1950.

OLYUNIN, V.; NENASHEV, S.; KAMYSHEV, A.; LEVIN, P. (st.Izvestkovaya, Khabarovskiy kray); KORSHUN, A., uchitel'-pensioner (s.Chagino, Gor'kovskaya oblast'); PROFATILOV, A. (Khost, Krasnodarskiy kray)

Readers letters. Pozh.delo 6 no.7:32 J1 '60. (MIRA 13:7)

1. Starshiy inspektor otдела okhrany Kirovskogo oblastnogo upravleniya khleboproduktov (for Olyunin).
2. Starshiy inspektor Upravleniya pozharnoy okhrany, g. Novosibirsk (for Nenashev).
3. Nachal'nik pozharnoy komandy, g. Yelets, Lipetskaya oblast' (for Kamyshev).

(Fire prevention)

PROFATILOVA, Larisa Mikhaylovna, kand.ekonom.nauk; SHUL'GA, V.V.,
glavnyy red.

[Development of the production of synthetic materials is
important for national economy] Rozvytok vyrobnytstva
syntetychnykh materialiv - vazhlyve narodnohospodars'ke
zavdannia. Kyiv, 1959. 35 p. (Tovarystvo dlia poshyrennia
politychnykh i naukovykh znan' Ukrain's'koi RSR. Ser.7,
no.4) (MIRA 12:8)

(Synthetic products)

SEREDENKO, M.M., doktor ekon. nauk; ALEKSANDROVA, V.P.; KUGUSHEV, M.F. [Kuhushev, M.F.]; SHEVCHENKO, Ya.O.; GLAMAZDA, A.D. [Hlamazda, A.D.]; ZABORSKAYA, Z.M. [Zabors'ka, Z.M.]; KHOTIMCHENKO, M.M. [Khotymchenko, M.M.]; YATSKOV, V.S.; MEDVEDEV, V.M. [Medvediev, V.M.]; CHIRKOV, P.V. [Chyrkov, P.V.]; KHARCHENKO, P.F.; SOTCHENKO, Z.Ya.; PROFATILOVA, L.M. [Profatylova, L.M.]; MAULIN, M.O.; GORELIK, L.Ye. [Horelik, L.IE.]; RIZHKOV, I.I. [Ryzhkov, I.I.]; ZHEREBKIN, G.P. [Zherebkin, H.P.]; KHRAMOV, O.O.; LANDYSH, B.O., red.; ROZENTSVEYG, Ye.N. [Rozentsveih, IE.N.], tekhn. red.

[Economic efficiency of capital investments and the introduction of new machinery in industry] Ekonomichna efektyvnist' kapital'-nykh vkladov i vprovadzhennia novoi tekhniki u promyslovosti. Kyiv, Vyd-vo Akad. nauk URSR, 1962. 260 p. (MIRA 16:2)

1. Akademiya nauk URSR, Kiev. Instytut ekonomiky.
(Capital investments) (Technological innovations)

PROFATILOVA, L.M. [Profatylova, L.M.]

Basic sources for the increase of labor productivity in the
chemical industry. Khim. prom. [Ukr.] no.3:67-70 J1-S '63.
(MIRA 17:8)

1. Institut ekonomiki promyshlennosti UkrSSR.

DARAGAN, M.V.[Darahan, M.V.], otv. red.; PRIMAK, K.V.[Prymak, K.V.]
zam. otv. red.; DEREVYANKIN, T.I.[Derev'iankin, T.I.],
red.; DZIKOVICH, V.Ya.[Dzykovych, V.IA.], red.; OGANYAN,
G.A.[Ohanian, H.A.], red.; PROFATILOVA, L.M., red.;
SOTCHENKO, Z.Ya., red.; BORYAKIN, V.M., red.; REKES, M.A.,
tekhn. red.

[Problems of the socialist economy and history of the
national economy; based on materials of the Ukrainian
S.S.R.] Pytannia sotsialistychnoi ekonomiky ta istorii
narodnoho hospodarstva; na materialakh Ukrain's'koi RSR,
Kyiv, Vyd-vo AN URSR, 1963. 280 p. (MIRA 17:2)

1. Akaderiia nauk URSR, Kiev. Instytut ekonomiky.

DARAG, N. M.V. [Darehan, M.V.], otv. red.; DEREVIANKIN, T.I.
[Derev'iankin, T.I.], red.; EZIKOVICH, V.Ya. [Dzykovich,
V.IA.], red.; PROFATILOVA, L.M., red.; SOICHENKO, E.Ya.
red.; BORYAKIN, V.M., red.

[Problems of economics and statistics] Fytannia ekonomiky
i statystyky. Kyiv, Naukova dumka, 1965. 231 p.
(MIRA 18:5)

1. Akademiya nauk URSR, Kiev. Instytut ekonomiky.

ACC NR: AP6033375

SOURCE CODE: UR/0292/66/000/008/0030/0032

AUTHOR: Namitokov, K. K. (Candidate of physico-mathematical sciences); Profatilova, N. I. (Engineer)

ORG: None

TITLE: Variation in the magnetic properties of transformer steel in a broad temperature interval

SOURCE: Elektrotehnika, no. 8, 1966, 30-32

TOPIC TAGS: magnetic property, magnetic permeability, transformer steel, magnetization curve, magnetostriction, magnetic induction

ABSTRACT: The authors present a method for determining the magnetic characteristics of various grades of transformer steel and give data on the effect which temperature variation from -86 to 750°C has on the magnetic characteristics of hot rolled E13, E31, E41 and E42 transformer steel and cold rolled E310 and 3100 steel. The temperature was measured at 100°C intervals. Static magnetization curves for direct current and residual induction were determined at each temperature interval. The study was carried out on annular specimens stamped out of standard sheet transformer steel 0.5 mm thick and toroids with a 53 mm outside diameter and 40 mm inside diameter coiled from band 10 mm wide and cut in the direction of rolling from the same sheet metal as the

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UDC: 62.317.42.001.2

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others. Specimens made from E310 steel were pre-annealed in a vacuum to eliminate the aftereffects of processing and to produce a grain in conformity with GOST 502-56. High temperature measurements were carried out in a crucible resistance furnace. All specimens were cooled together in the furnace. The specimens studied at -86 and -30°C were placed in a cryostat. The induction and magnetic field of the various specimens during heating are quite strong with a continual reduction in residual induction. In heating steel from room temperature to 100-200°C, induction decreases only slightly in a 150 erg field. Further heating up to 700°C in the same field produces a sharp reduction in induction. Residual induction decreases over the entire temperature range up to 700°C much more uniformly. The overall nature of thermal variation in the magnetization curves of transformer steel is shown by E13 steel. The data gathered from E13 show that the region characterized by a sharp increase in induction shifts toward lower field intensity for all grades of transformer steel at higher temperatures. At higher temperatures, saturation is reached in weaker fields despite the fact that saturation induction decreases. If hot rolled transformer steel is magnetized in a weak field, induction increases as temperature is raised to 700°C. It is shown that increased silicon content reduces the growth of induction in a weak field during heating with a concomitant reduction in field intensity. The effect of temperature on induction curves is the same for two sets of steel: E13 and E31; E41 and E42. Variation in the induction of silicon-iron in weak fields is determined to a great extent by grain. Temperature has qualitatively similar effects on the magnetization curves of stamped and coiled specimens made from E310 steel. Maximum magnetic

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ACC NR: AP6033375

permeability for E13 and E31 steel increases insignificantly as temperature is increased and rises sharply at 700°C. Maximum magnetic permeability for E41, E42 and E3100 steel decreases insignificantly up to 500°C and increases sharply at 700°C. It is apparent that induction variation and magnetic permeability of E31 and E13 steel in weak fields is determined by the temperature variation of the magnetic anisotropy constant. Magnetostriction is observed in the case of E41, E42 and E3100 steel. For this reason, maximum magnetic permeability decreases up to the temperature corresponding to maximum magnetostriction during heating. A comparison of magnetization curves taken for specimens made from E42 steel which went through preliminary and secondary heating cycles shows that maximum magnetic permeability of the second cycle increases by a factor of 3 up to 600°C as compared to the first cycle for the same temperature. A significant increase in the slope of the magnetization curves is observed for the second cycle as compared to the first cycle for the same temperature. The differences between the first and second cycle become less as the specimen is heated above 600°C and completely disappear at 700°C. Preliminary annealing does not change induction saturation, although it is lower for the second cycle. It is interesting to note the effect of preliminary heat treatment on the properties of coiled and stamped specimens made from cold rolled E310 steel. The magnetization curves taken in the -86 to 700°C temperature interval for annealed specimens are much higher than for corresponding unannealed specimens. Preliminary vacuum annealing shows up significantly only in the magnetization curve of the coiled specimens at 700°C. At temperatures above 700°C, and close to the Curie point, all specimens studied showed Hopkinson's maximum. Orig. art. has: 7 figures.

SUB CODE; 11, 20/ SUBM DATE: None/ ORIG REF: 004/ OTH REF; 001

Card 3/3

PROFCZER, Jeno (Budapest)

Forum of innovators. Unit lap 18 1959-60 10 G '64.

HOJOVEC, Vlad., inz.; MALY, Jiri, inz.; PROFELD, Evzen, inz.

Simplified computation of the profile for determining the television
beam visibility. Sdel tech 9 no.11:428-430 N '61.

USPENSKIY, Vasil'y Vasil'yevich; PROFERANSOV, D.P., nauchnyy red.;
GYUNTER, A.R., red.izd-va; KASIMOV, D.Ya., tekhn. red.

[Lowering costs in construction] Snizhenie sebestoimosti v
stroitel'stve. Moskva, Gos. izd-vo lit-ry po stroit., arkhit.
i stroit. materialam, 1961. 31 p. (MIRA 15:2)
(Construction industry—Costs)

YURKOV, Petr Vasil'yevich; PROFERANSOV, D.P., red.; GYUNTER, A.R.,
red.; KASIMOV, D.Ya., tekhn. red.

[What the builder should know about accounting on a construction
project] Chto nuzhno znat' stroitel'iu ob uchete na stroike. Mo-
skva, Gos. izd-vo lit-ry po stroit., arkhitekt. i stroit. materialam
1961. 34 p. (MIRA 15:3)
(Construction industry--Accounting)

PAK, Yuriy Yefimovich, inzh.; PROFERANSOV, D.P., red.; MORSKOY, K.L.,
red. izd-va; TEMKINA, Ye.L., tekhn. red.

[Labor organization in a construction brigade] Organizatsiya
truda v stroitel'noi brigade. Moskva, Gos. izd-vo lit-ry po
stroit., arkhitekt. i stroit. materialam, 1961. 35 p.
(MIRA 15:2)

(Construction industry)

SOKOLOV, Boris Mikhaylovich; PROFERANSOV, D.P., nauchnyy red.;
GYUNTER, A.R., red. izd-va; MIKHEYEVA, A.A., tekhn. red.

[Industrialization of construction] Industrializatsiia stroi-
tel'stva. Moskva, Gos. izd-vo lit-ry po stroit., arkhitekt. i
stroit. materialam, 1961. 35 p. (MIRA 15:3)
(Construction industry—Technological innovations)

ROTSHTEYN, Aleksandr Grigor'yevich; PAK, Yuriy Yefimovich; PROFERANSOV,
D.P., nauchnyy red.; GERASIMOVA, G.S., red. izd-va; GOL'BERG,
T.M., tekhn. red.

[For high labor productivity in construction] Za vysokuiu proiz-
voditel'nost' truda na stroike. Moskva, Gos. izd-vo lit-ry po
stroit., arkhitekt. i stroit. materialam, 1961. 37 p.

(MIRA 15:3)

(Construction industry--Labor productivity)

PARAUBEK, G.E.; PROFERANSOV, D.P., nauchnyy red.; GERASIMOVA, G.S.,
red. izd-va; RUDAKOVA, N.I., tekhn. red.

[For high quality in construction] Za vysokoe kachestvo
stroitel'stva. Moskva, Gos. izd-vo lit-ry po stroit., arkhitekt.
i stroit. materialam, 1961. 41 p. (MIRA 15:3)
(Construction industry)

KASPE, Mikhail Isaakovich; PROFERANSOV, D.P., red.; BOGINA, S.,
red. izd-va; TEMKINA, Ye., tekhn. red.

[How to determine whether a construction organization is
doing good work or bad] Kak opredelit', khorosho ili plokho
rabotaet stroitel'naya organizatsiya. Moskva, Gos. izd-vo
lit-ry po stroit., arkhitekt. i stroit. materialam, 1961. 51 p.
(MIRA 15:2)

(Construction industry)

PECHENKIN, Aleksandr Nikolayevich; PROFERANSOV, D.P., nauchnyy red.;
GYUNTER, A.R., red.izd-va; GOL'BERG, T.M., tekhn.red.

[New techniques in construction] Novaia tekhnika v stroi-
tel'stve. Moskva, Gos.izd-vo lit-ry po stroit., arkhitekt. i
stroit.materialam, 1961. 52 p. (MIRA 15:5)
(Precast concrete construction)
(Building machinery)

SOLOMIN, Vladimir Vasil'yevich; PROFERANSOV, D.P., nauchnyy red.;
GYUNTER, A.R., red.izd-va; RUDAKOVA, N.I., tekhn. red.

[Plan is construction's law] Plan - zakon stroitel'stva. Mo-
skva, Gosstroizdat, 1961. 60 p. (MIRA 16:4)
(Construction industry—Management)

SIVITSKIY, Konstantin Pavlovich; PROFERANSOV, D.P., nauchnyy red.;
GYUNTER, A.R., red. izd-va; GOL'BERG, T.M., tekhn. red.

[Builders in the struggle for creating the material and
technical bases of communism] Stroiteli v bor'be za sozda-
nie material'no-tekhnicheskoi bazy kommunizma. Moskva,
Gosstroizdat, 1962. 33 p. (MIRA 15:10)
(Construction industry)

MERKIN, Roal'd Mikhaylovich; SVISTUNOVA, Galina Mikhaylovna;
PROFERANSOV, D.P., nauchnyy red.; BOGINA, S.L., red.
izd-va; RODIONOVA, V.M., tekhn. red.

[Estimated cost of construction] Smetnaia stoimost' stroitel'-
stva. Moskva, Gosstroizdat, 1962. 41 p. (MIRA 15:7)
(Construction industry—Costs)

KATSIN, A.; PROFERANSOV, D.

"Planning costs in construction" by A.N.Vinogradov. Reviewed by
A.Katsin, D.Proferansov. Fin.SSR 37 no.4:91-93 Ap '63.

(MIRA 16:4)

(Construction industry--Costs)

(Vinogradov, A.N.)

BARTON¹, Nikolay Emamilevich, CHERNOV, Igor Yefimovich, OSIPOV,
L.G.; kand. tekhn. nauk; reizenzenty, PROFERANSOV, D.P.,
inzh.; reizenzenty, GRONDA, V.I.; ped.

[Architectural elements; parts of buildings] Arkhitektu-
nye konstruktii; chasti zdani. Moskva, Vysshaya shkola,
1965. 342 p. (MIRA 18.12)

BANNIKOV, A.G., red.; BOCHKAREV, M.M., red.; PROFERANSOV, D.P., red.

[Materials of the Second Congress of the All-Russian Society for the Promotion of Nature Conservation] Materialy Vserossiiskogo obshchestva sodeistviia okhrane prirody. Moskva, 1960. 175 p. (MIRA 16:8)

1. Vserossiyskoye obshchestvo sodeystviya okhrane prirody.
2. s"yezd, Moskva, 1959. 2. Nachal'nik Glavnogo upravleniya lesnogo khozyaystva i okhrany lesa pri Sovete Ministrov RSFSR (for Bochkarev).
(Conservation of natural resources--Congresses)

YUDENICH, Nikolay Vasil'yevich; PROFERANSOV, D.P., nauchnyy red.;
MORSKOY, K.L., red. izd-va; SHERSTNEVA, N.V., tekhn. red.

[Introduce business accounting in construction brigades]
Stroitel'nye brigady - na khozraschet. Moskva, Gosstroizdat,
1962. 15 p. (MIRA 16:1)
(Construction industry—Finance)

RYABTSEV, N.I., red.; BUKHIN, V.Ye., red.; VIGDORCHIK, D.Ya., red.;
IVANOV, N.P., red.; KNAPP, K.K., red.; KOZLOV, S.S., red.;
PROFERANSOV, V.P., red.; SLOBODKIN, M.S., red.; SHAROVATOV,
L.P., red.; BYKOVA, L.B., ved. red.; KORSUN, Ye.P., red.;
USHAKOVA, A.F., ved. red.; POLOSINA, A.S., tekhn. red.

[Gas equipment, apparatus, and fittings; reference book]Ga-
zovoe oborudovanie, pribory i armatura; spravochnoe rukovod-
stvo. Moskva, Gostoptekhizdat, 1963. 469 p. (MIRA 16:4)
(Gas, Natural—Pipelines) (Gas appliances)

TSIKERMAN, L.Ya.; PANOV, Ye.I.; NAUMOV, A.P.; PROFERANSOV, V.P.

Methods and instruments for checking the anticorrosive insulation
of underground pipelines. Gaz. prom. no.3:11-15 Mr '57.

(MIRA 12:3)

(Pipelines--Equipment and supplies)
(Insulating materials)

PROFERANSOV, V., inzh.

How to use gas stoves. Zhil.-kom. khoz. 9 no.9:27-28 '59.
(MIRA 13:2)

(Stoves, Gas)

PROFERANSOV, V., inzh.

Regulating the pressure of gas as it flows directly from the pipeline.
Zhil.-kom. khoz. 11 no.4:15-17 Ap '61. (MIRA 14:6)
(Gas distribution)

BUKHIN, V.Ye.; VOVCHENKO, L.I.; PERCHENOK, R.I.; PROFERANSOV, V.P.;
KNAPP, K.K., red.; ALTUF'YEVA, A.M., red.izd-va; VOLKOV,
S.V., tekhn.red.

[Gas equipment, apparatus, instruments, and fittings for an
urban gas system; catalog] Gazovoe oborudovanie, apparatura,
pribory, armatura dlia gorodskogo gazovogo khoziaistva; katalog.
Moskva, Izd-vo M-va kommun.khoz.RSFSR, 1959. 289 p. (MIRA 13:2)
(Gas appliances)

(Gas manufacture and works--Equipment and supplies)

PROFERANSOV, V.P., inzh.

Constructing control points of gas distribution system (GRP).
Stroi. truboprov. 6 no. 1:21-23 Ja '61. (MIRA 14:2)
(Gas distribution)

14(9); 18(7)

30V/95-59-6-10/12

AUTHOR: Proferansov, V.P., Engineer

TITLE: Protection of City Gas Pipelines Against Corrosion From Stray Currents

PERIODICAL: Stroitel'stvo truboprovodov, 1959, Nr 6, pp 27 - 28 (USSR)

ABSTRACT: A recent inspection of gas pipelines in a number of cities in the RSFSR revealed that out of 750 km inspected, 100 km were in anode or sign-alternating zones, with potential difference ranging from a few tens millivolt to several volts. Damage from electro chemical corrosion were observed in 7 cities. Signs of corrosion were observed in Stalingrad already 6 months after installation and in Rostov even after 3 months. Intensive corrosion is caused by stray currents from tram lines and electric RR lines. The best known method of active protection is the draining system. In view of the fact that stray currents change frequently in time, force and direction, direct draining is not practicable in the majority of cases. The necessity arises of developing a drainage which cuts in, to direct the current off the pipeline and cuts out, when the current changes direction and flows into the pipeline. The article

Card 1/2

SOV/95-59-6-10/12

Protection of City Gas Pipelines Against Corrosion From Stray Currents

describes a system which is most used at present in cities and is known as the polarized drainage PED-AKKh-ORGGAZ which is the most sensitive. The principle of this system is shown on schematic Diagram 1. There is one schematic diagram, 1 circuit diagram and 1 table.

Card 2/2

SHCHERBAKOV, M.I., red.; UNKOVSKIY, A.M., red.; PROFERANSOVA,
N.V., red.; ~~POLUKABOVA, N.K.,~~ tekhn. red.

[Production training in rural schools] Opyt proizvodstvennogo
obucheniia v sel'skikh shkolakh. Pod red. M.I.Shcherbakova i
A.M.Unkovskogo. Moskva, Izd-vo APN RSFSR, 1962. 86 p.

(MIRA 16:7)

1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut pro-
izvodstvennogo obucheniya.

(Agriculture--Study and teaching)

PASTUKH, Ye.Ya., red.; PROFERANSOVA, N.V., red.; TARASOVA, V.V., tekhn.
red.

[Electrive courses in agriculture for secondary vocational
schools] Fakul'tativnye kursy po sel'skomu khoziaistvu v sred -
nei politekhnicheskoi shkole. Pod red. E.IA.Pastukh. Moskva,
1960. 63 p. (MIRA 14:5)

1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut me-
todov obucheniya.

(Agricultural education)

BRUNOVT, Yevgeniya Pavlovna; PROFERANSOVA, N.V., red.; TARASOVA, V.V.,
tekhn.red.

[Study of human anatomy and physiology in the secondary school]
Izucheniye anatomii i fiziologii cheloveka v srednei shkole.
Moskva, Izd-vo Akad.pedagog.nauk RSFSR, 1960. 285 p.

(MIRA 14:1)

(ANATOMY--STUDY AND TEACHING)

(PHYSIOLOGY--STUDY AND TEACHING)

TSVETKOV, L.A., red.; PROKHORANSOVA, N.V., red.; TARASOVA, V.V., tekhn.red.

[Teaching chemistry in schools] Prepodavanie khimii v shkole.
Pod red. L.A.Tsvetkova. Moskva, 1959. 190 p. (MIRA 12:10)

1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut
metodov obucheniya.
(Chemistry--Study and teaching)

PROFERANSOVA, N.V.
GLORIOZOV, Pavel Aleksandrovich; DRIZOVSKAYA, Tamara Mikhaylovna; TSVETKOV,
Leonid Aleksandrovich; SHAPOVALENKO, Sergey Grigor'yevich; EPSHTEYN,
David Arkad'yevich; PROFERANSOVA, N.V., red.; LAUT, V.G., tekhn.
red.

[Problems of technical education in the teaching of chemistry]
Voprosy politekhnicheskogo obucheniia v prepodavanii khimii. Pod.
red. S.G.Shapovalenko. Moskva, Izd-vo Akad. pedagog. nauk RSFSR.
1957. 425 p. (MIRA 11:5)

1. Chlen-korrespondent APN RSFSR (for Shapovalenko)
(Chemistry--Study and teaching)

TSVETKOV, Leonid Aleksandrovich; PROFERANSOVA, N.V., red.; NOVOSELOVA,
V.V., tekhn.red.

[Study of polymers in the secondary schools; manual for
chemistry teachers] Izuchenie polimerov v srednei shkole;
posobie dlia uchitelei khimii. Moskva, Izd-vo Akad.pedagog.
nauk RSFSR, 1960. 142 p. (MIRA 13:5)
(Polymers—Study and teaching)

REYZIN, Eduard Karlovich; SOKOLOV, N.L., redaktor; PROPERANSOVA, N.V.,
redaktor; VOLKOV, A.P., tekhnicheskii redaktor

[Student assignments in beekeeping] Zaniatiia uchashchikhsia po
pchelovodstvu. Pod red. N.L.Sokolova. Moskva, Izd-vo Akademii
pedagog. nauk RSFSR, 1956. 35 p. (MLRA 9:11)
(Bee culture--Study and teaching)

IVANOVA, Aleksandra Mikhaylovna; PROPERANSOVA, N.V., redaktor; GARNEK, V.P.,
tekhnicheskiiy redaktor; TARASOVA, V.V., tekhnicheskiiy redaktor

[Teaching botany in schools for rural youth] Prepodavanie botaniki
v shkole sel'skoi molodezhi. Moskva, Izd-vo Akademii pedagog. nauk
RSFSR, 1956. 145 p. (MLRA 10:3)
(Botany--Study and teaching)

IVANOVA, Aleksandra Mikhaylovna; PROFERANSOVA, N.V., redaktor; YELAGIN, V.D., redaktor; PETROVA, M.D., tekhnicheskii redaktor.

[Teaching the fundamentals of Darwinism in schools for working youth; a manual for teachers] Prepodavanie osnov darvinizma v shkole rabochei molodeshi; metodicheskoe posobie dlia uchitel'ia. Moskva, Izd-vo Akademii pedagog. nauk RSFSR, 1956. 158 p. (MIRA 9:6)
(Evolution)

PROFERANSOVA, N.V.

SHIBANOV, A.A., STAVROVSKIY, A.Ye; SHCHERBAKOV, M.I.; SMIRNOV, V.I.;
PROFERANSOVA, N.V., redaktor; SOKOLOVA, R.YA., tekhnicheskij
redaktor.

[Studying agriculture in rural schools] Izuchenie sel'skokhoziai-
stvennogo proizvodstva v sel'skoi shkole. Moskva, izd-vo Akad.
pedagog.nauk RSFSR, 1956. 191 p. (MLRA 10:6)

(Agriculture--Study and teaching)

NOSOV, M.S.; ORANSKIY, N.N.; PERFILOV, V.A.; KRASNOV, V.S., red.;
KOROLEV, A.F., nauchnyy red.; PROFERANSOVA, N.V., red.;
TOKER, A.M., tekhn. red.

[Mechanization of work on livestock farms] Mekhanizatsiya
rabot na zhivotnovodcheskikh fermakh. Moskva, Proftekhizdat
(MIRA 16:10)
1963. 399 p.

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyay-
stvennykh nauk im. V.I.Lenina (for Krasnov).
(Stock and stockbreeding--Equipment and supplies)
(Farm mechanization)

PROFERANSOVA N.V.
SHALAYEV, V.F.; PADALKO, N.V.; MEL'NIKOV, M.I.; PETRISHINA, O.L.; PROFERANSOVA,
N.V., redaktor; SOKOLOVA, P.Ya., tekhnicheskiy redaktor

[General science instruction in connection with the biology course]
Politehnicheskoe obuchenie v svyazi s kursom biologii. Pod obshchei
red. V.F.Shalaeva. Moskva, Izd-vo Akademii pedagog. nauk RSFSR, 1956.
174 p. (MLRA 10:2)

(Biology--Study and teaching)

SHALAYEV, Vasilii Feofilovich; GOGOLEVA, Yelena Dmitriyevna; KIVOTOV,
Sergey Aleksandrovich; PROFERANSOVA, N.V., red.; TARASOVA,
V.V., tekhn. red.

[Correlation between zoology lessons and practical work of
students in rabbit husbandry] Vzaimosv'яз' urokov zoologii s
prakticheskimi rabotami uchashchikhsia po krolikovodstvu.
Moskva, Izd-vo Akad. pedagog. nauk RSFSR, 1961. 52 p.

(MIRA 15:10)
(Stock and stockbreeding--Study and teaching) (Rabbits)

EPSHTEYN, David Arkad'yevich, prof., doktor tekhn.nauk; PROFERANSOVA,
N.V., red.; TARASOVA, V.V., tekhn.red.

[Mineral fuels and their chemical processing] Goriuchie
iskopaemye i ikh khimicheskaya pererabotka; kniga dlia uchi-
telia. Moskva, Izd-vo Akad.pedagog.nauk RSFSR, 1959. 150 p.
(MIRA 12:12)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR (for
Epshteyn).

(Fuel) (Chemicals)

RYKOV, N.A., red.; PROPERANSOVA, N.V., ed.; TARASOVA, V.V., tekhn.red.

[Agricultural work of students in summer] Letnii sel'skokho-
ziaistvennyi trud uchashchikhsia. Pod red. N.A.Rykova. Moskva,
Izd-vo pedagog.nauk RSFSR, 1959. 43 p. (MIRA 12:12)

1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut peda-
gogiki, Leningrad. 2. Leningradskiy institut pedagogiki Akademii
pedagogicheskikh nauk RSFSR (for Rykov).
(Agriculture--Study and teaching)

PROFRANSOVA, N.V.
SHCHUKIN, Sergey Vasil'yevich; SMIRNOV, V.Z., red.; PROFERANSOVA, N.V.,
red.; TARASOVA, V.V., tekhn.red.

[Socially useful work of students in agriculture] Obshchestvenno
poleznyy trud uchashchikhsia v sel'skom khoziaistve. Pod red.
V.Z.Smirnova. Moskva, Izd-vo Akad.pedagog.nauk RSFSR, 1957. 254 p.
(MIRA 11:3)

1. Chlen-korrespondent APN RSFSR (for Smirnov)
(Agriculture—Study and teaching)

PROFERANSOVA, N. V.

SOKOLOV, Nikolay Leonidovich; PROFERANSOVA, N.V., red.; LAUT, V.G., tekhn.red.

[Experiments with animals in the schools nature nook] Opyt nad
zhivotnymi v ugolke zhivoi prirody. Moskva, Izd-vo Akad.pedagog.
nauk RSFSR, 1957. 77 p. (MIRA 11:1)

(Zoology--Study and teaching)

PROFERANSOVA, N. V.

EPSHTEYN, David Arkal'yevich, professor, doktor tekhnicheskikh nauk;
LEYPUNSKAYA, D.I., redaktor; PROFERANSOVA, N.V., redaktor;
SOKOLOVA, R.Ya., tekhnicheskiiy redaktor

[Principles of chemical technology; a book for teachers]
Osnovy khimicheskoi tekhnologii; kniga dlia uchitel'ia. Moskva, Izd-
vo Akad. pedagog. nauk RSFSR, 1957. 222 p. (MLRA 10:5)
(Chemistry, Technical)

PRO 4ERANSOVA, M.

PGHELKO, Aleksandr Spiridonovich; ZAVITAYEV, Petr Alekseyevich;
PROFERANSOVA, N.V., redaktor; SOKOLOVA, P.Ya., tekhnicheskii
redaktor

[Elements of general science teaching in primary schools; a
practical manual] Elementy politekhnikeskogo obucheniia v nachal'noi
shkole; metodicheskoe posobie. Izd. 3-e, perer. Moskva, Izd-vo
Akad. pedagog. nauk RSFSR, 1956. 95 p. (MLRA 10:4)
(Science--Study and teaching)

SHIBANOV, Aleksey Aleksandrovich; PROFERANSOVA, H.V., red.; SOKOLOVA, H.Ya.;
tekh., red.

[General science instruction in rural schools] Politekhnicheskoe
obuchenie v sel'skoi shkole. Izd.3., perer. i dop. Moskva, Izd-vo
Akad.pedagog.nauk RSFSR, 1958. 421 p. (MIRA 12:3)
(Agriculture---Study and teaching)

PROFERANSOVA, N.V.

YAKHONTOV, A.A., profeccor, redaktor; PROFERANSOVA, N.V., redaktor;
FIALKINA, G.A., redaktor; GOROKHOV, Yu. N., tekhnicheskii redaktor

[Practical work in the school experimental garden plot; work
practice] Prakticheskie zaniatiia na shkol'nom uchebno-opytnom
uchastke; iz opyta raboty. Pod red. A.A. Iakhontova. Moskva,
1956. 78 p. (MLRA 10:4)

1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut
metodov obucheniya. 2. Chlen-korrespondent Akademii
pedagogicheskikh nauk RSFSR. (for Yakhontov)---
(School gardens)

KUZ'MIN, Petr Aleksandrovich; STAVROVSKIY, A.Ye., redaktor; ~~PROFESSOR~~ ANSOVA,
N.V., redaktor; GOROKHOV, Yu.N., tekhnicheskii redaktor

[The school and agriculture; work practice of schools in Barysh
District, Ul'yanovsk Province] Shkola i sel'skoe khoziaistvo; iz
opyta raboty shkol Baryshskogo raiona Ul'ianovskoi obl. Pod red.
A.E. Stavrovskogo. Moskva, Izd-vo Akademii pedagog. nauk RSFSR,
1956. 19 p. (MIRA 9:11)
(Barysh District--Agriculture--Study and teaching)

FLEROVA, Ye.A.; STAVROVSKIY, A.Ye.; SHALAYEVA, V.F.; YELAGIN, V.D.,
redaktor; PROFERANSOVA, N.V., redaktor; VOLKOV, A.P., tekhnicheskii redaktor

[Experience in teaching biology; a collection of articles] Opyt
prepodavaniia biologii; sbornik statei. Pod red. E.A.Flerovoi,
A.E.Stavrovskogo i V.F.Shalaeva. Moskva, 1956. 254 p. (MLRA 9:10)

1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut metodov
obucheniya
(Biology--Study and teaching)

BELODVORSKIY, Yu. M.; PROFERANSOV, V.P.; KORIGODSKAYA, B.P.; TSIKERMAN, L.Ya.

Methods for calculating corrosion resistance of insulated pipelines
being under the effect of stray currents. Gor. khoz. Mosk. 32 no.10:
28-31 0 '58. (MIRA 11:11)

1. Upravlyayushchiy trestom "Mosgaz" (for Belodvorskiy).
 2. Trest "Orggas" Moskovskogo kommunal'nogo khozyaystva RSFSR (for Proferansov).
 3. Otdel podzemnykh sooruzheniy Arkhitekturno-planirovochnogo upravleniya g. Moskvyy (for Korigodskaya).
 4. Akademiya kommunal'nogo khozyaystva imeni K.D. Pamfilova (for Tsikerman).
- (Electric current, Leakage) (Pipelines)
(Corrosion and anticorrosives)

MURTAZIE, Gil'mulla Minnigaleyevich,; PADALKO, N.V.,red.; PROFERANSOVA,
N.V., red.; TARASOVA, V.V.,tekh. red.

[Conducting laboratory work in botany] Opyt provedeniia
laboratornykh rabot po botanike. Moskva, Izd-vo Akad. pedagog.
nauk RSFSR, 1958. 53 p. (MIRA 11:12)
(Botany--Laboratory manuals)

PROFETA, A.

TECHNOLOGY

Periodical: REVISTA INDUSTRIEI ALIMENTARE. PRODUSE VEGETALE. No. 4, 1958.

PROFETA, A. Some mechanizing problems in the line of sugar products. p. 28.

Monthly List of East European Accession (EEAI) LC, Vol. 8 no. 3
March 1959 Unclass.

H 28

Country : RUMANIA
Category : Chemical Technology. Food Industry
Abs. Jour : Ref Zhur-Khimiya, No 14, 1959, No 51490
Author : Profeta, A.
Institute : -
Title : Problems of Mechanization of the Pastry Industry
Orig Pub. : Rev. ind. aliment, prod. vegetale, 1958, No 4, 28-30
Abstract : No abstract.

Card: 1/1

11-16-6

CA

PROCESSING AND PROPERTIES MODEL

Countercurrent extraction of semiconductors or other materials. Max J. Pyrolysis (to the Government of the U. S. A., as represented by the Secretary of Commerce and his successors). U. S. 2,188,919, Feb. 6. App. is described, and a process of extr. comprising an input of solvent at the head of an extn. column counterwise to an input of material to be extd., and in which the material is treated in several cells, which consists in charging a material carrying cell with flood liquid derived from near the ext.-delivery end of a column of cells, advancing the cell with reference to the flow of flood liquid until it reaches a position intermediate the column, isolating the material from the flow of flood liquid, treating the isolated material with a reagent while by-passing flood liquid from the next ensuing treating cell to the next preceding cell, removing excess treating reagent from the material and reintroducing the treated material to the flow of flood liquid in the next succeeding stage of extr.

ASAC-5LA METALLURGICAL LITERATURE CLASSIFICATION

12000 127000000 100000 110000 120000 130000 140000 150000 160000 170000 180000 190000 200000 210000 220000 230000 240000 250000 260000 270000 280000 290000 300000 310000 320000 330000 340000 350000 360000 370000 380000 390000 400000 410000 420000 430000 440000 450000 460000 470000 480000 490000 500000 510000 520000 530000 540000 550000 560000 570000 580000 590000 600000 610000 620000 630000 640000 650000 660000 670000 680000 690000 700000 710000 720000 730000 740000 750000 760000 770000 780000 790000 800000 810000 820000 830000 840000 850000 860000 870000 880000 890000 900000 910000 920000 930000 940000 950000 960000 970000 980000 990000 1000000

GDR / Organic Chemistry--Synthetic Organic Chemistry G-2

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 27451

Author : Profft, E.

Inst : Not given

Title : The Investigation of the Falicaines. VII. The Hydrochlorides of the 4-n-Propoxy- β -Dialkyl-aminopropiophenones and 4-n-Propoxy- β -Alkylpiperidinophenones.

Orig Pub: Chem Technik, 10, No 5, 302-306 (1958) (in German)

Abstract: Compounds of the type 4-C₃H₇OC₆H₄COCH₂CH₂R (I), where R is a substituted piperidine or secondary aliphatic amine ('falicaine') residue, have been synthesized for the purpose of studying their local anesthetizing action (LAA). I are prepared by the addition of a secondary amine to 4-C₃H₇OC₆H₄-CCCH=CH₂ (II). 0.25 mols of ClCH₂CH₂COCl is mixed with

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/01

GDR / Organic Chemistry--Synthetic Organic Chemistry G-2

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 27451

Abstract: 34 gms $C_3H_7OC_6H_5$ in 200 ml CS_2 , 37 gms of $AlCl_3$ are added, and the solution is refluxed for 60 min at the end of the reaction; the yield of 4- $C_3H_7OC_6H_4COCH_2CH_2Cl$ (III) is 84%. 0.2 mol III in 100 ml CH_3OH is refluxed for 10 min with 24 gms CH_3COOK , the solution is extracted with $CHCl_3$, and II is separated from the extract as an oil. 50.58 mmols of crude II are mixed with 50 mmol of the substituted piperidine with cooling when necessary. In some cases it was found necessary to add an equal volume of ether. The reaction mixture is diluted with ether, an ether solution of HCl [original unclear] is added, and the hydrochloric (HC) of I is precipitated out. The synthesis of I can also be achieved without separating the II; 50 mmol

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GDR / Organic Chemistry--Synthetic Organic Chemistry G-2

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 27451

Abstract: III in 25 ml CH_3OH are refluxed briefly with 6 gms CH_3COOK , the solution is allowed to stand for 1 hr at $\sim 20^\circ$, a solution containing 0.5 mol of the secondary amine in 25 ml alcohol is added, and at the end of the exothermic reaction 25 ml of water are added to the mixture; I is separated and subsequently converted to the HC. The method described can be used in preparing the following I from III (R, the yield of HC of 1 in %, mp in $^\circ\text{C}$, and mp in $^\circ\text{C}$ of the picrate ate given in that order): piperidyl ('falicine') (Ia), 61, 164-165, -; 2-methylpiperidyl, 58.3, 145.5-146; 2-ethylpiperidyl, 70.0, 133-134, 106-107; 4-ethylpiperidyl, 36.5, 180-181, 131-132; 2,6-dimethylpiperidyl, 16.5, 154-155, 134.5-135; 2,4,6-trimethylpiperidyl, 22.6, 146-147, 129-130; 2-(penty-3)-piper-

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GDR / Organic Chemistry--Synthetic Organic
Chemistry

G-2

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 27451

Abstract: idyl, 10 (solubility in water 0.5%; the aqueous solution rapidly loses LAA), 146.5-147, 134-135; 2-propylpiperidyl, -, -(oily liquid); -, 2-methyl-6-ethylpiperidyl, 6, -(oily liquid) -; $(C_2H_5)_2N$, 66.7, 125-126, 115-115.5; $(n-C_3H_7)_2N$, 55.5, 88-89, -, $(iso-C_4H_9)_2N$, 10, -(oily substance), -. Some I were synthesized by the Mannich reaction, e.g., I ($R=(C_4H_9)_2N$) (Ib): 50 mmol $(C_4H_9)_2NH$ in 18.3 ml abs alc are treated with 75 mmol paraform [sic] and 0.15 mol 4-propoxyacetophenone, the solution is gently refluxed for 1 hr, an additional 60 mmol paraform and alcoholic HCl are added to pH~4, and the solution is heated for 3 hrs; the yield of Ib is 25.7%. Ib is unstable,

Card 4/6

GDR / Organic Chemistry--Synthetic Organic
Chemistry

G-2

Abs Jour: Ref Zhur-Khimiya, No 8, 1959, 27451

Abstract: and does not form crystalline salts with an ether solution of HCl or HBr. Using a method similr to that described for Ib, the following I were synthesized (R, the yield in %, and the mp in °C of the HC are given in that order): 3-methylpiperidyl, 91.4, 168-168.5; 4-methylpiperidyl, 90.1, 175-175.5; 2-propylpiperidyl, 77.3, 115-116; 2,4-dinitrophenylhydrazone (DNFH) mp 142-144°; 4-n-propylpiperidine [sic], 89, 182.5; 4-n-butylpiperidyl (Ic), 44.1, 178.5-179; 2,4-dimethylpiperidyl, 66.7, -, hydrobromide mp 143.5-144.5°, DNFH mp 194.5-195°; 2-methyl-5-ethylpiperidyl, 75.2, -(the HC changes rapidly in air), hydrobromide mp 147-148.5°, solubility in water 0.3% (the aqueous solution of the hydro-

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BORECKI, Z.; PROFIC, H.

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